

**Notice of Allowability**

Application No.

09/838,758

Examiner

Mehrdad Dastouri

Applicant(s)

GREENFIELD ET AL.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Supplemental After Final amendment filed.
2. ☒ The allowed claim(s) is/are 1-4, 7 and 9-11 (Renumbered 1-8).
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./~~Mail Date~~ 04122005.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 04/22/05
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

***Examiner's Amendment***

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Mr. Marshall M. Curtis (Registration No. 33, 138) on April 12, 2005.

2. The application has been amended as follows:

Substitute Claim 7 by the following:

Claim 7. (Currently Amended) A pre-processing circuit for image data including a filter having inputs to receive luminance and chrominance data corresponding to consecutive image data lines,

a buffer for storing said consecutive lines of said image data and outputting said image data to said filter,

means for applying hybrid filter coefficients to said filter such that vertically spatially filtered and chrominance converted data are concurrently and simultaneously developed by said filter,

means for multiplying said luminance and chrominance data by said hybrid filter coefficients for respective ones of said consecutively presented lines to produce weighted luminance and chrominance values,

means for summing said weighted luminance and chrominance values, and

means for sub-sampling said chrominance converted data.

***Response to Amendment***

3. Applicants' Supplemental After final amendment filed March 31, 2005, has been entered and made of record.

***Drawings***

4. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the submitted drawings are informal. Replacement Sheets containing the formal drawing figure(s) shall be provided. Failure to timely submit the formal drawings will result in the abandonment of the application. The formal drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for formal drawings will not be held in abeyance.

***Allowable Subject Matter***

5. The following is an examiner's statement of reasons for allowance:

The instant invention recites a method of pre-processing image data (Figure 3) including steps of

buffering and applying luminance and chrominance data of consecutively presented lines of data to respective data inputs of a filter,

applying hybrid filter coefficients to said filter to for concurrently and simultaneously filtering said luminance and chrominance data to concurrently and simultaneously develop vertically spatially filtered and chrominance converted data, and removing alternate lines of said chrominance converted data, wherein said filtering comprises steps of

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multiplying said luminance and chrominance data by said hybrid filter coefficients for respective ones of said consecutively presented lines to produce weighted luminance and chrominance values, and

summing said weighted luminance and chrominance values.

The features identified, in combination, are neither suggested nor discussed by the prior arts of record.

6. Claims 1-4, 7 and 9-11 are allowed.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Contact Information***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehrdad Dastouri whose telephone number is (571) 272-7418. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (571) 272-7414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mehrdad Dastouri  
Primary Examiner  
Art Unit 2623  
April 12, 2005

**MEHRDAD DASTOURI**  
**PRIMARY EXAMINER**

*Mehrdad Dastouri*